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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09 893,608 06.29.2001 Thomas Edward Wickert 839-968 6520 7590 05/29/2003 NIXON & VANDERHYE P.C. EXAMINER 8th Floor GONZALEZ, JULIO C 1100 North Glebe Road Arlington, VA 22201 ART UNIT PAPER NUMBER 2834

DATE MAILED: 05/29 2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/893,608	WICKERT ET AL.
	Examiner	Art Unit
	Julio C. Gonzalez	2834
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status		
1) Responsive to communication(s) filed on 18 October 2002.		
2a) This action is FINAL . 2b) ⊠ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims		
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.		
4a) Of the above claim(s) <u>1-3</u> is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>4-7</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9)⊠ The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on <u>29 <i>June 2001</i></u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some * c) None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal f	/ (PTO-413) Paper No(s) Patent Application (PTO-152)

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the gas turbine, the power grid, the compressor, the inlet vanes and varying the angular position of the inlet vanes must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 4-7 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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The claims disclose that the angular positions of the inlet vanes are varied. The disclosure is not specific enough as to describe how and what varies the position of the vanes. An "under-frequency condition" is disclosed and a "nominal" condition is disclosed. What is the difference between those two conditions and how they affect the vanes? The claims do not seem to define the under-frequency condition or the nominal condition. What factors determine the system to go from one condition to the other? What system/mechanism changes the vanes? It may seem as if the vanes are varied in under-frequency and nominal conditions and also when the power grid is operating in "normal" conditions. Are the vanes being constantly varied all the time?

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 4, what is considered to be a "normal power grid" condition? How is "normal" defined? What is considered to be the under-frequency condition of the power grid? What is considered to be "linear fashion"?

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In claim 5, what is meant by having a "return of the power grid to normal frequency operation"? What is considered "normal" again? In what condition would the power grid be when is not in "normal" operation?

In claim 7, "Nphys" is not defined.

In order to advance prosecution in the merits, the Prior Art will be applied as best understood by the examiner.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Faulkner et al in view of Reuther.

Faulkner et al discloses a gas turbine (see figure 1 & claim 2) having a compressor 15 and input vanes 48, which their angular position is varied (see figure 3). Moreover, Faulkner et al discloses that by varying the vanes 48, the airflow of the compressor is regulated (column 1, lines 41-44).

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However, Faulkner et al does not disclose explicitly that vanes may be varied depending on the compressor's speed.

On the other hand, Reuther discloses for the purpose of providing efficiently speed and voltage matching in gas power turbine plants thus improving system integration, a gas turbine having vanes (see figure 5). Also, Reuther teaches that the vanes may be varied depending on the compressors' speed (see figure 23).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a gas turbine as disclosed by Faulkner et al and to modify the invention by explicitly disclosing that vanes may be varied depending on the compressors' speed for the purpose of providing efficiently speed and voltage matching in gas power turbine plants thus improving system integration as disclosed by Reuther.

Allowable Subject Matter

8. Claim 7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, first paragraph and second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

· Mary

Jcg

May 20, 2003